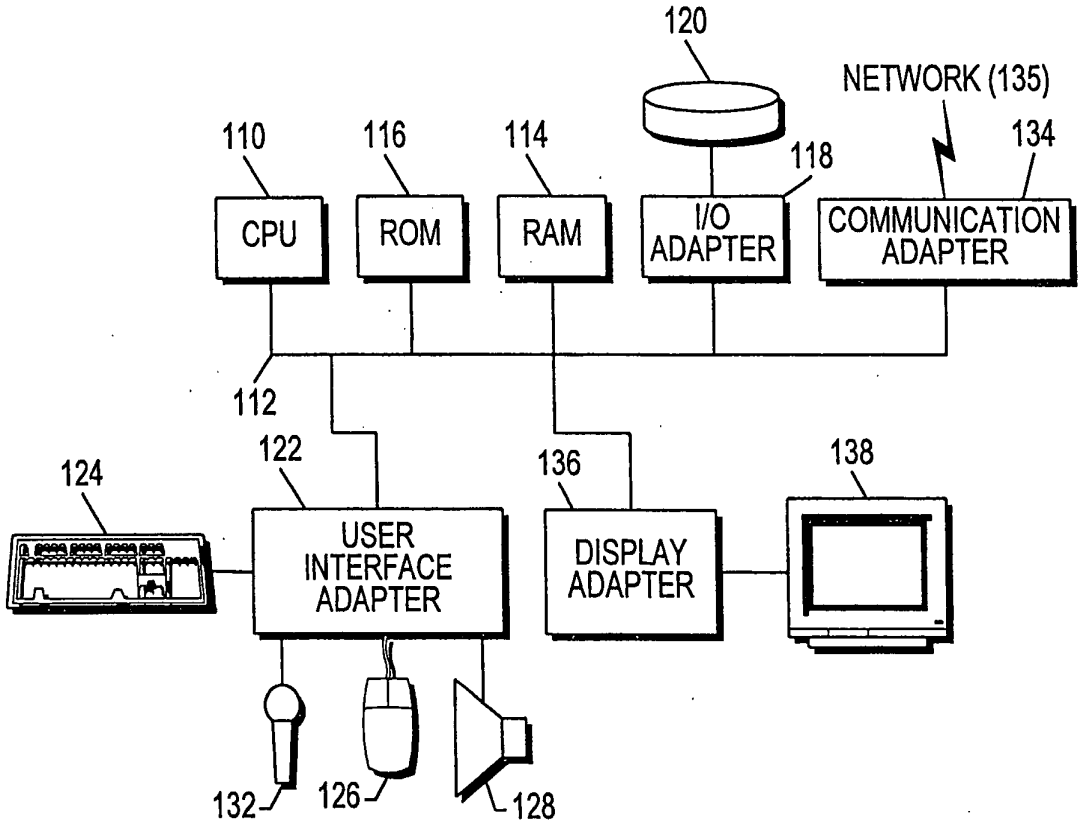
120
NETWORK (135)
110
116
114
118
134
CPU
ROM
RAM
I/O ADAPTER
COMMUNICATION ADAPTER
112
122
136
138
124
USER INTERFACE ADAPTER
DISPLAY ADAPTER
132
126
128

Figure 1

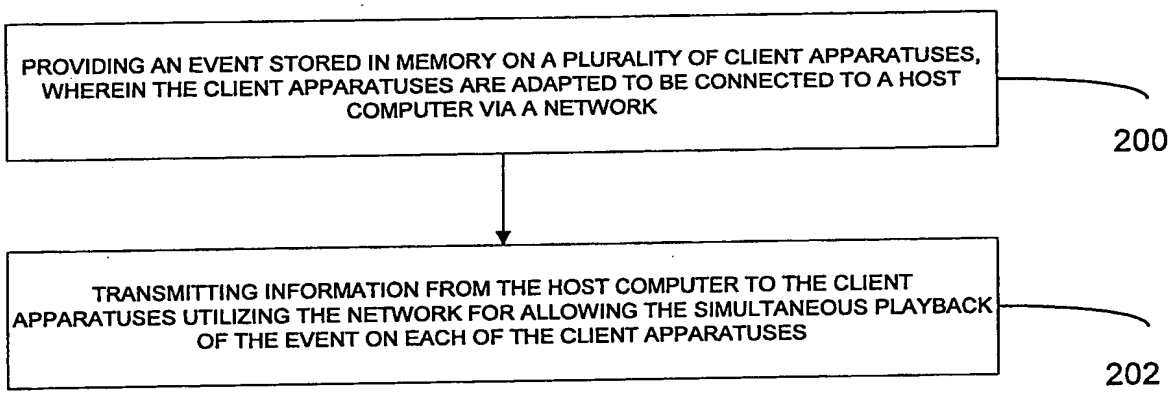

Figure 2

09488370-012008

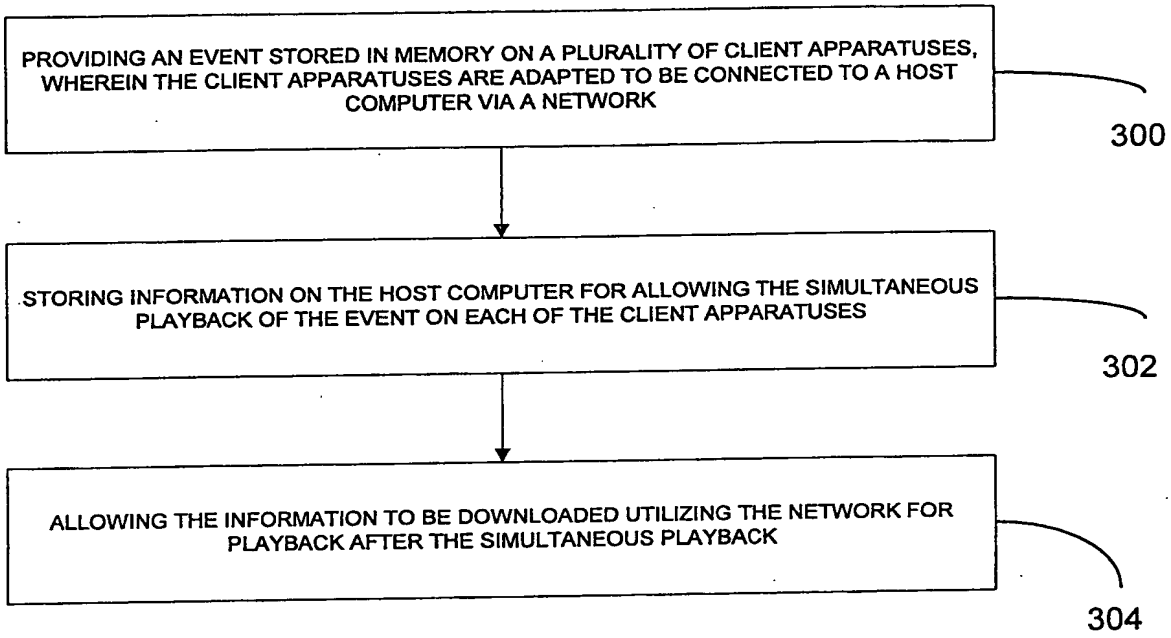

Figure 3

09458354.090704

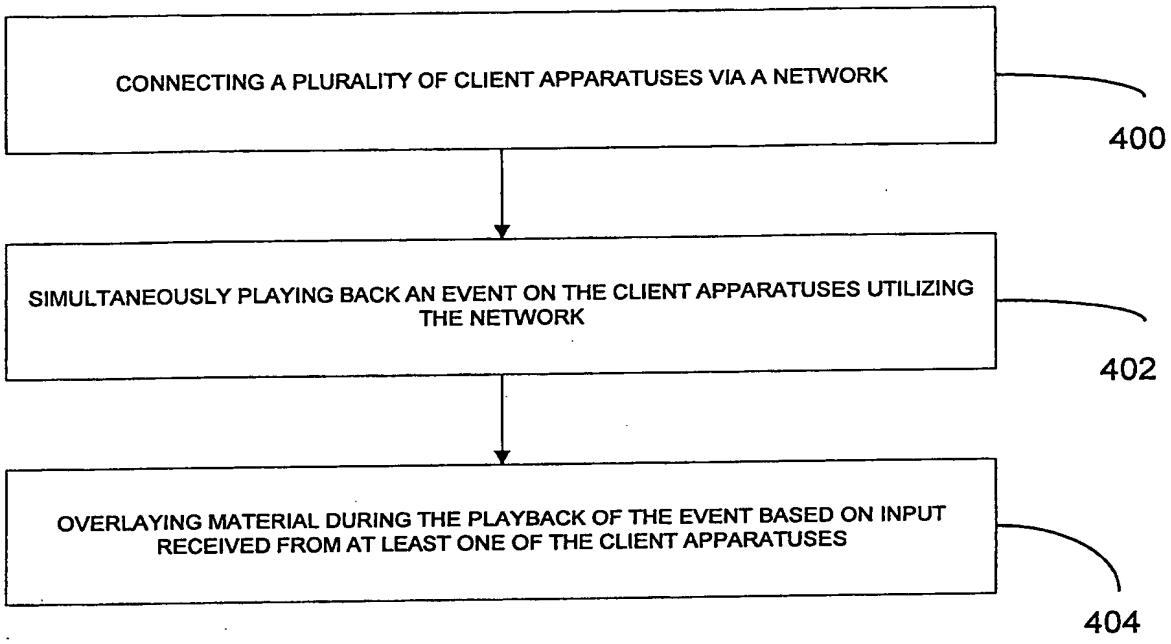

Figure 4

Docket No. 50277-2000

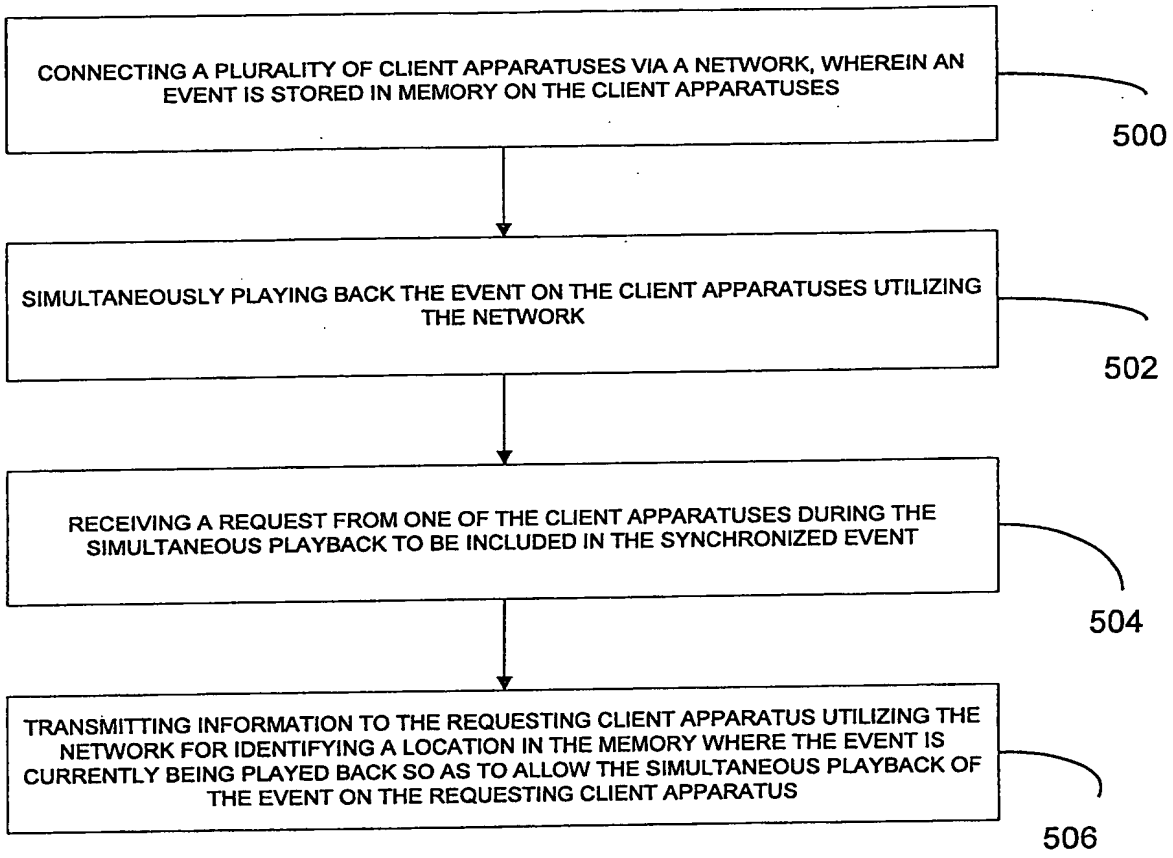
CONNECTING A PLURALITY OF CLIENT APPARATUSES VIA A NETWORK, WHEREIN AN EVENT IS STORED IN MEMORY ON THE CLIENT APPARATUSES
500
SIMULTANEOUSLY PLAYING BACK THE EVENT ON THE CLIENT APPARATUSES UTILIZING THE NETWORK
502
RECEIVING A REQUEST FROM ONE OF THE CLIENT APPARATUSES DURING THE SIMULTANEOUS PLAYBACK TO BE INCLUDED IN THE SYNCHRONIZED EVENT
504
TRANSMITTING INFORMATION TO THE REQUESTING CLIENT APPARATUS UTILIZING THE NETWORK FOR IDENTIFYING A LOCATION IN THE MEMORY WHERE THE EVENT IS CURRENTLY BEING PLAYED BACK SO AS TO ALLOW THE SIMULTANEOUS PLAYBACK OF THE EVENT ON THE REQUESTING CLIENT APPARATUS
506

Figure 5

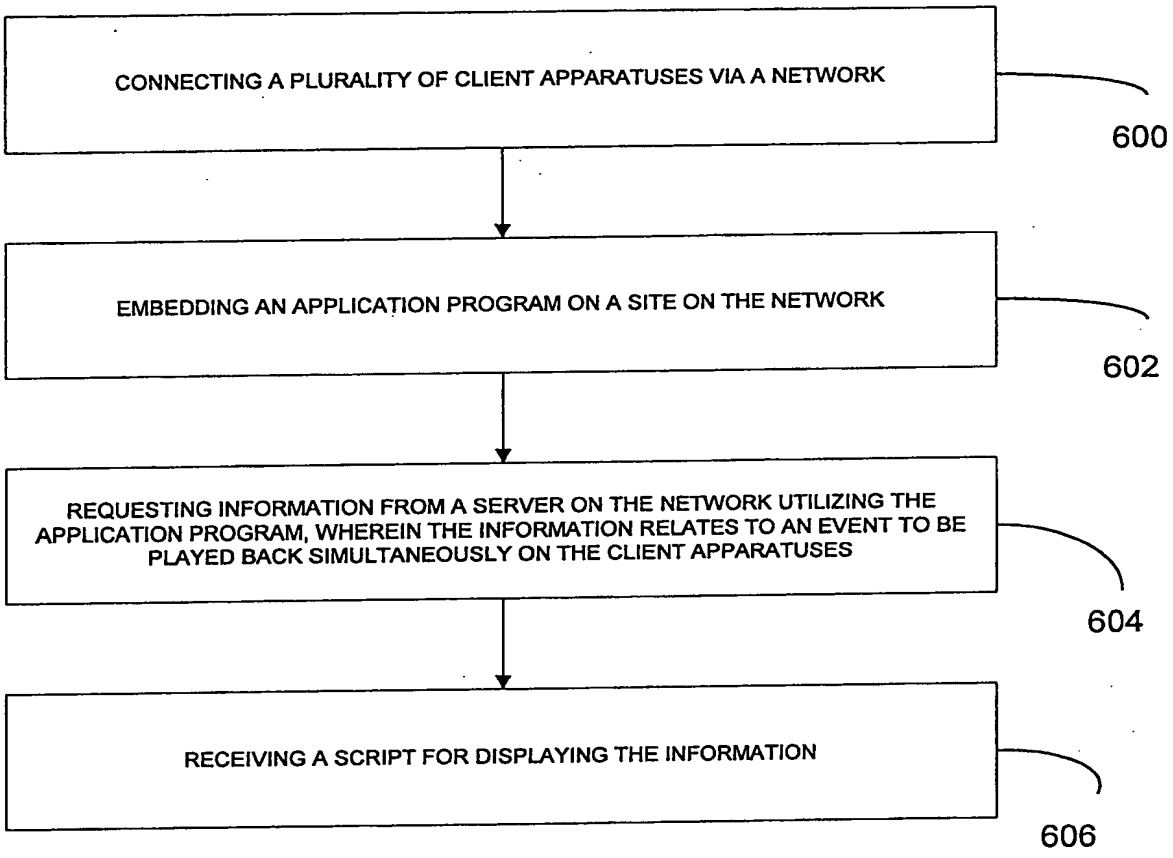
CONNECTING A PLURALITY OF CLIENT APPARATUSES VIA A NETWORK
600
EMBEDDING AN APPLICATION PROGRAM ON A SITE ON THE NETWORK
602
REQUESTING INFORMATION FROM A SERVER ON THE NETWORK UTILIZING THE APPLICATION PROGRAM, WHEREIN THE INFORMATION RELATES TO AN EVENT TO BE PLAYED BACK SIMULTANEOUSLY ON THE CLIENT APPARATUSES
604
RECEIVING A SCRIPT FOR DISPLAYING THE INFORMATION
606

Figure 6

09488350 - 042000

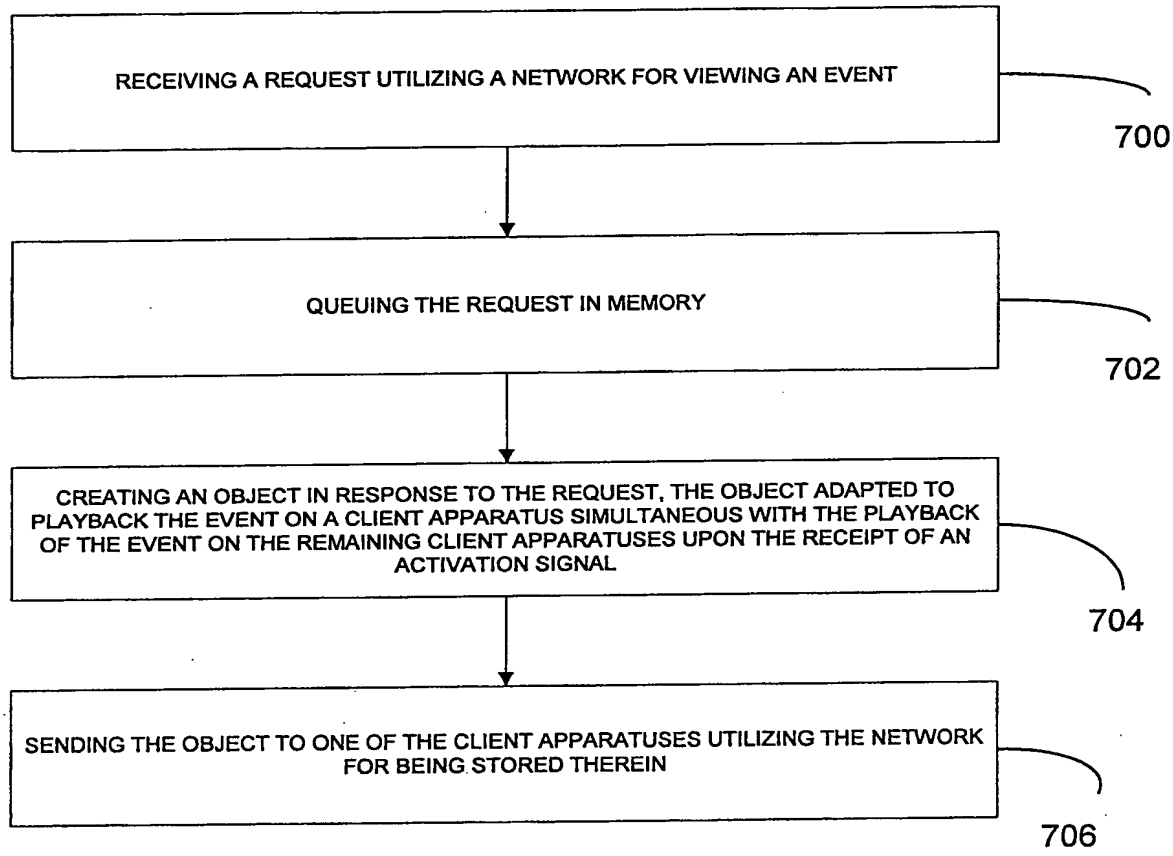

Figure 7

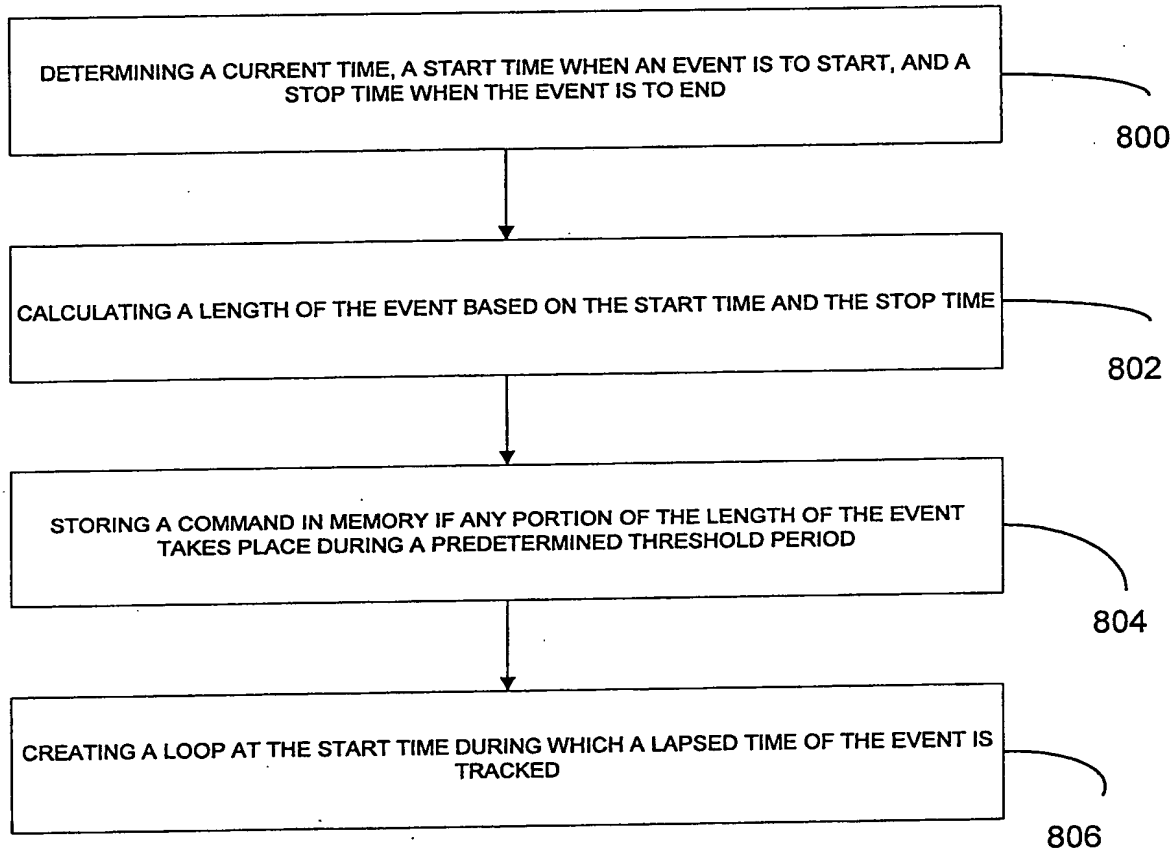
DETERMINING A CURRENT TIME, A START TIME WHEN AN EVENT IS TO START, AND A STOP TIME WHEN THE EVENT IS TO END
800
CALCULATING A LENGTH OF THE EVENT BASED ON THE START TIME AND THE STOP TIME
802
STORING A COMMAND IN MEMORY IF ANY PORTION OF THE LENGTH OF THE EVENT TAKES PLACE DURING A PREDETERMINED THRESHOLD PERIOD
804
CREATING A LOOP AT THE START TIME DURING WHICH A LAPSED TIME OF THE EVENT IS TRACKED
806

Figure 8

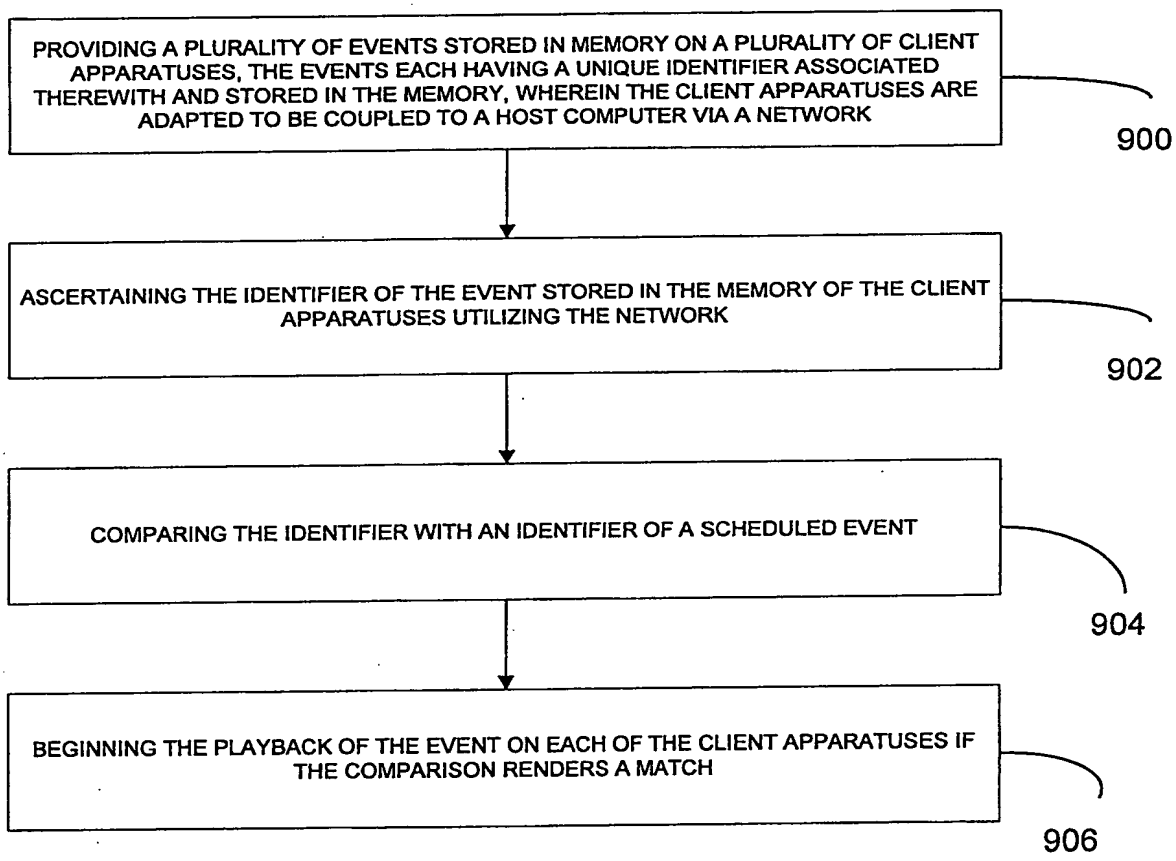

Figure 9

0054853v1 0054853

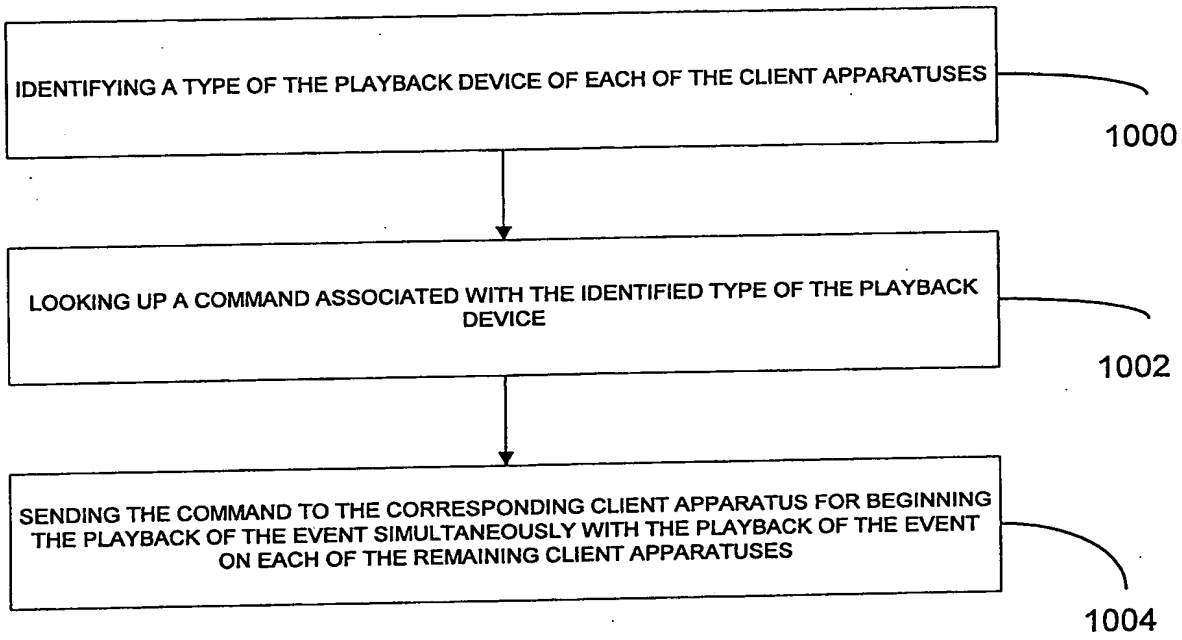
IDENTIFYING A TYPE OF THE PLAYBACK DEVICE OF EACH OF THE CLIENT APPARATUSES
1000
LOOKING UP A COMMAND ASSOCIATED WITH THE IDENTIFIED TYPE OF THE PLAYBACK DEVICE
1002
SENDING THE COMMAND TO THE CORRESPONDING CLIENT APPARATUS FOR BEGINNING THE PLAYBACK OF THE EVENT SIMULTANEOUSLY WITH THE PLAYBACK OF THE EVENT ON EACH OF THE REMAINING CLIENT APPARATUSES
1004

Figure 10

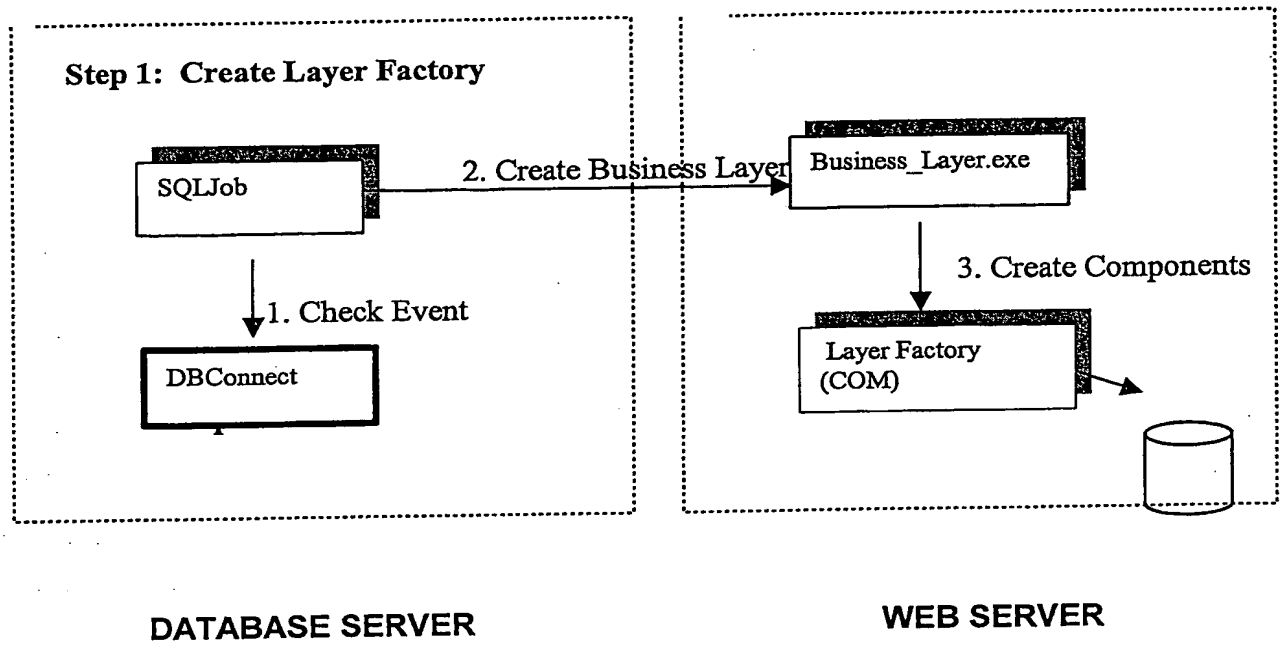

Figure 11

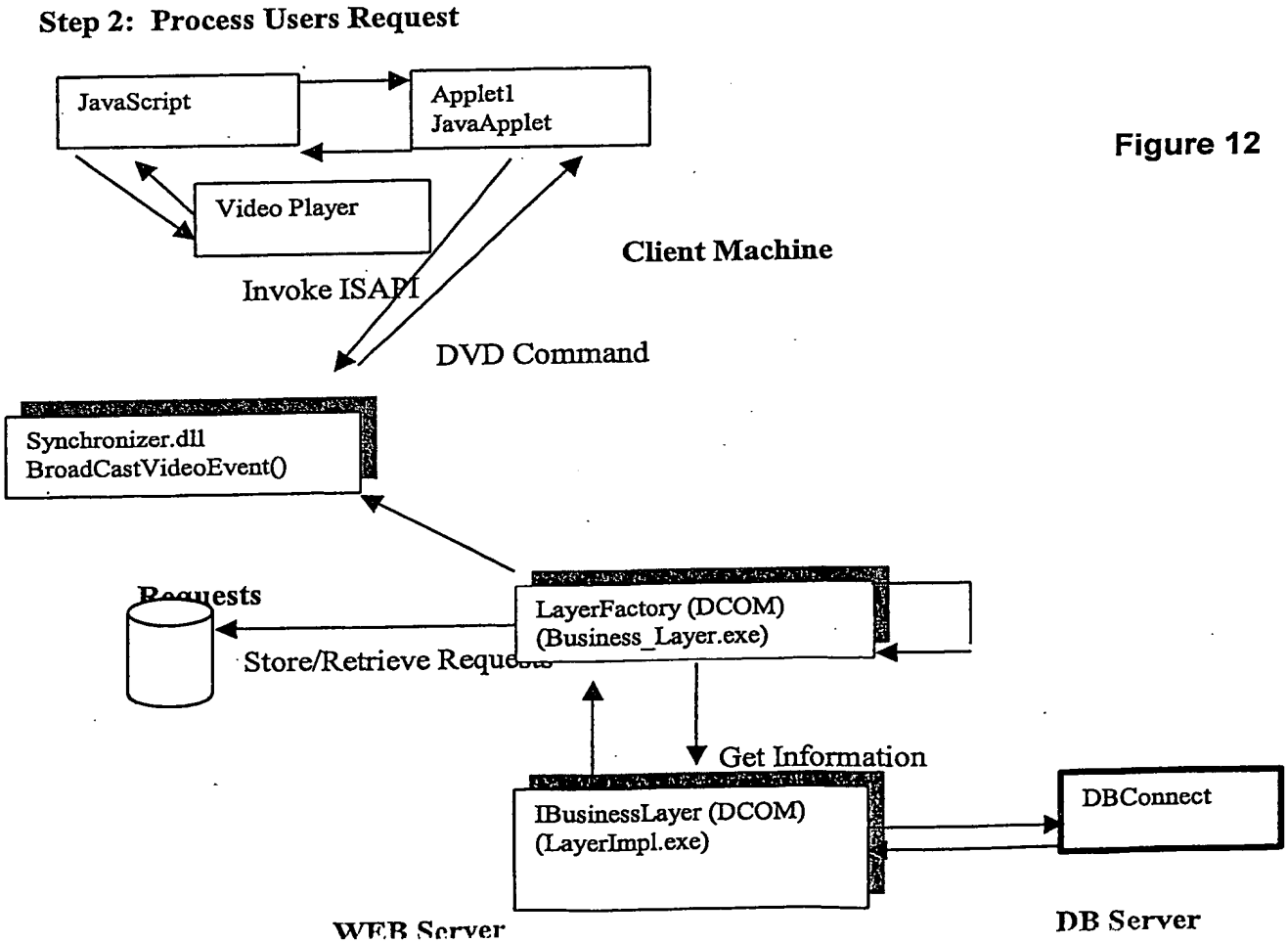

Figure 12

0004270.02684450

1300

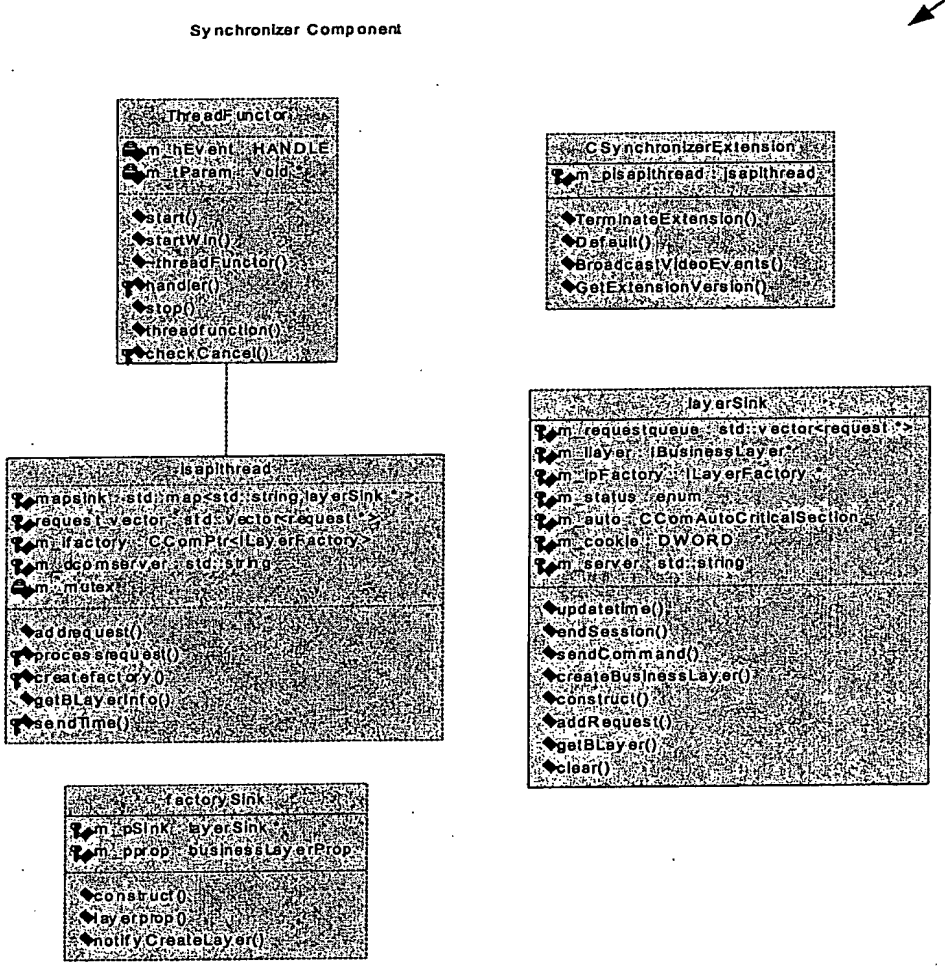

Figure 13

0002702.2838450

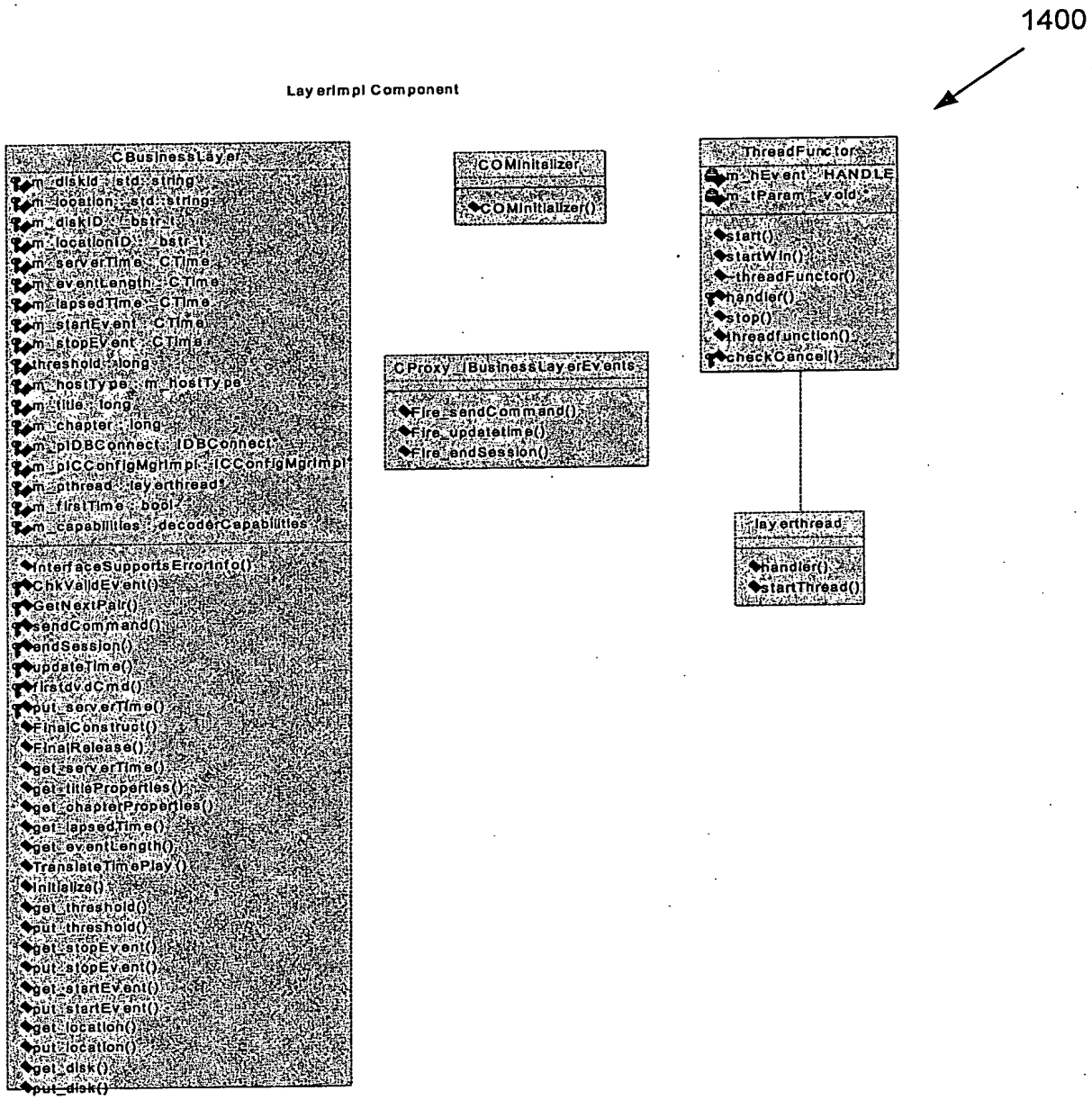

Figure 14

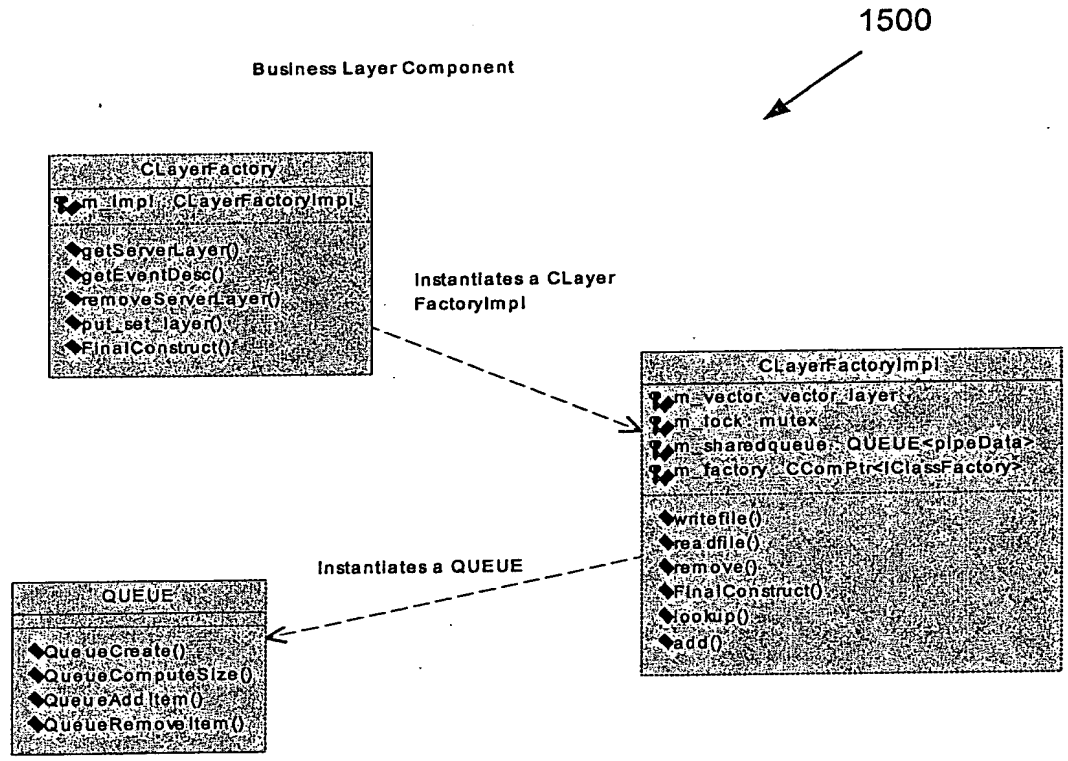
1500
Business Layer Component
CLayerFactory
m_impl : CLayerFactoryImpl
getServerLayer()
getEventDesc()
removeServerLayer()
put_set_layer()
FinalConstruct()
Instantiates a CLayer FactoryImpl
CLayerFactoryImpl
m_vector : vector_layer
m_lock : mutex
m_sharedqueue : QUEUE<pipeData>
m_factory : CComPtr<IClassFactory>
writefile()
readfile()
remove()
FinalConstruct()
lookup()
add()
Instantiates a QUEUE
QUEUE
QueueCreate()
QueueComputeSize()
QueueAdd Item()
QueueRemove Item()

Figure 15

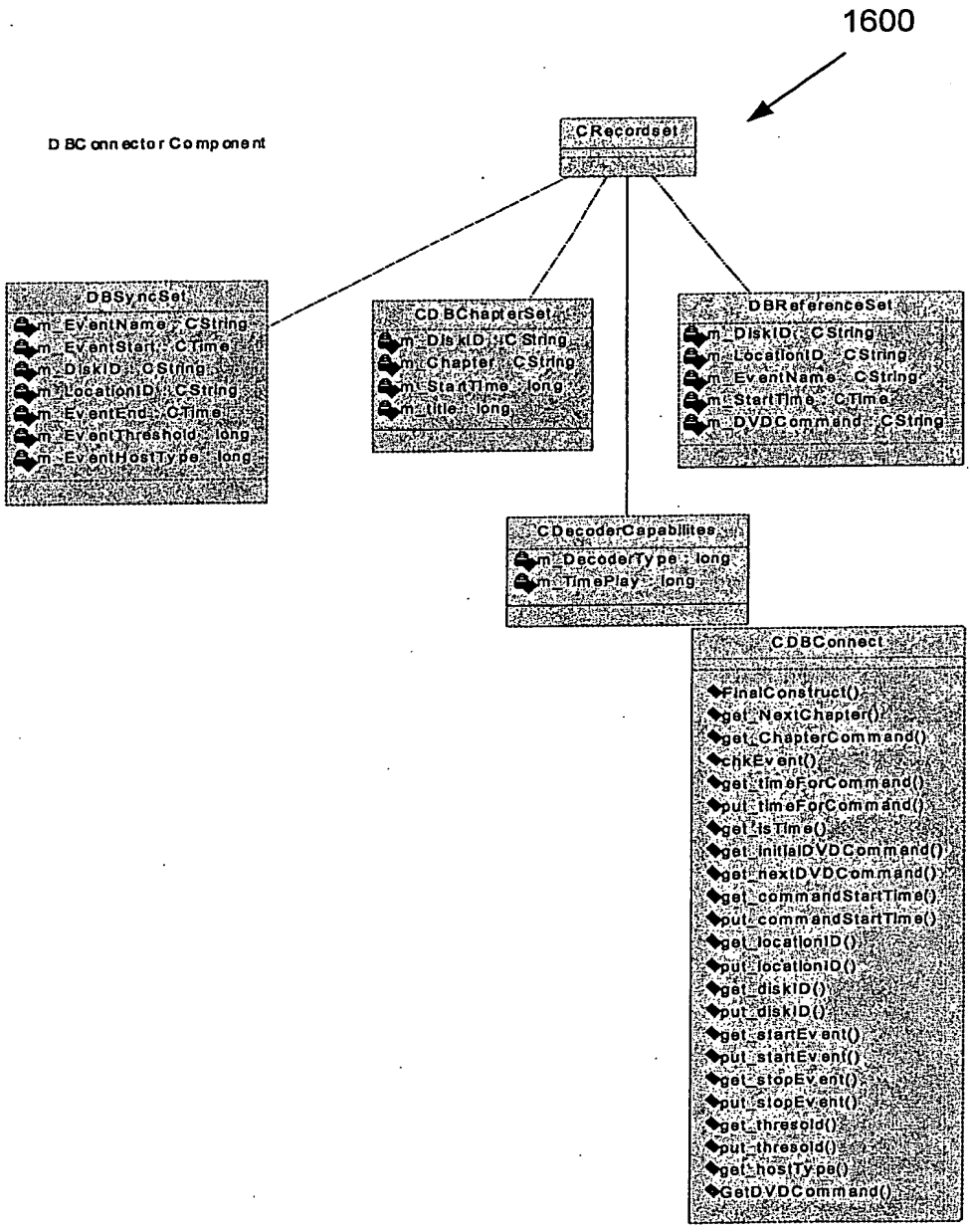
1600
DBConnector Component
CRecordset
DBSyncSet
m_EventName : CString
m_EventStart : CTime
m_DiskID : CString
m_LocationID : CString
m_EventEnd : CTime
m_EventThreshold : long
m_EventHostType : long
CDBChapterSet
m_DiskID : CString
m_Chapter : CString
m_StartTime : long
m_title : long
DBReferenceSet
m_DiskID : CString
m_LocationID : CString
m_EventName : CString
m_StartTime : CTime
m_DVDCommand : CString
CDecoderCapabilites
m_DecoderType : long
m_TimePlay : long
CDBConnect
FinalConstruct()
get_NextChapter()
get_ChapterCommand()
chkEvent()
get_timeForCommand()
put_timeForCommand()
get_isTime()
get_initialDVDCommand()
get_nextDVDCommand()
get_commandStartTime()
put_commandStartTime()
get_locationID()
put_locationID()
get_diskID()
put_diskID()
get_startEvent()
put_startEvent()
get_stopEvent()
put_stopEvent()
get_thresold()
put_thresold()
get_hostType()
GetDVDCommand()

Figure 16

0002710 "3E3847650

1700

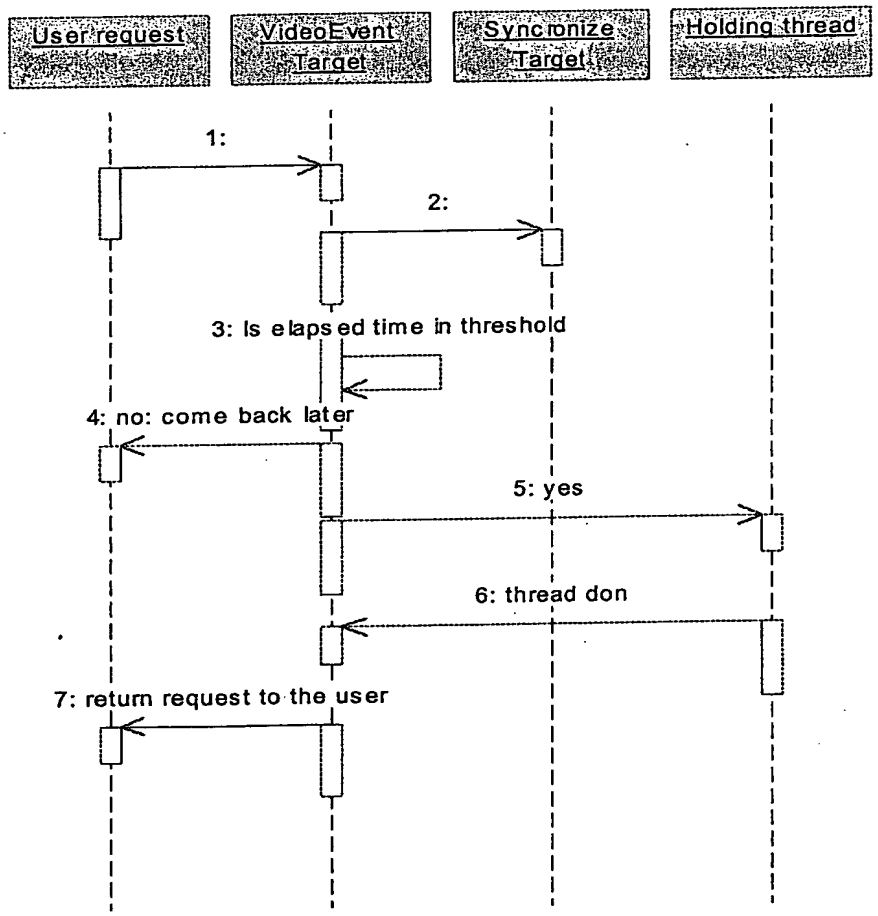

Figure 17

0604960.2 "0 0 0 0 0 0 0 0 0 0

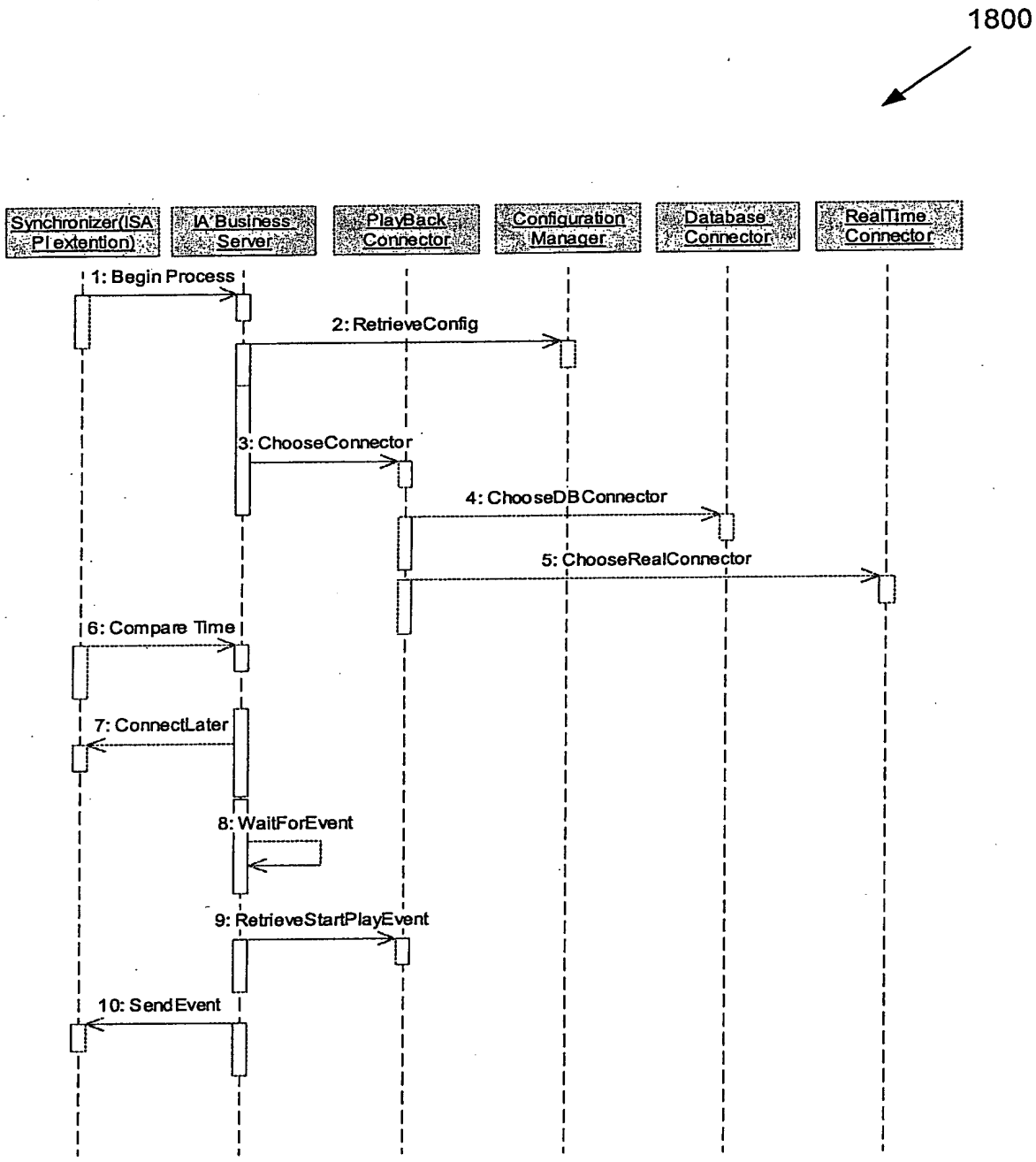

Figure 18

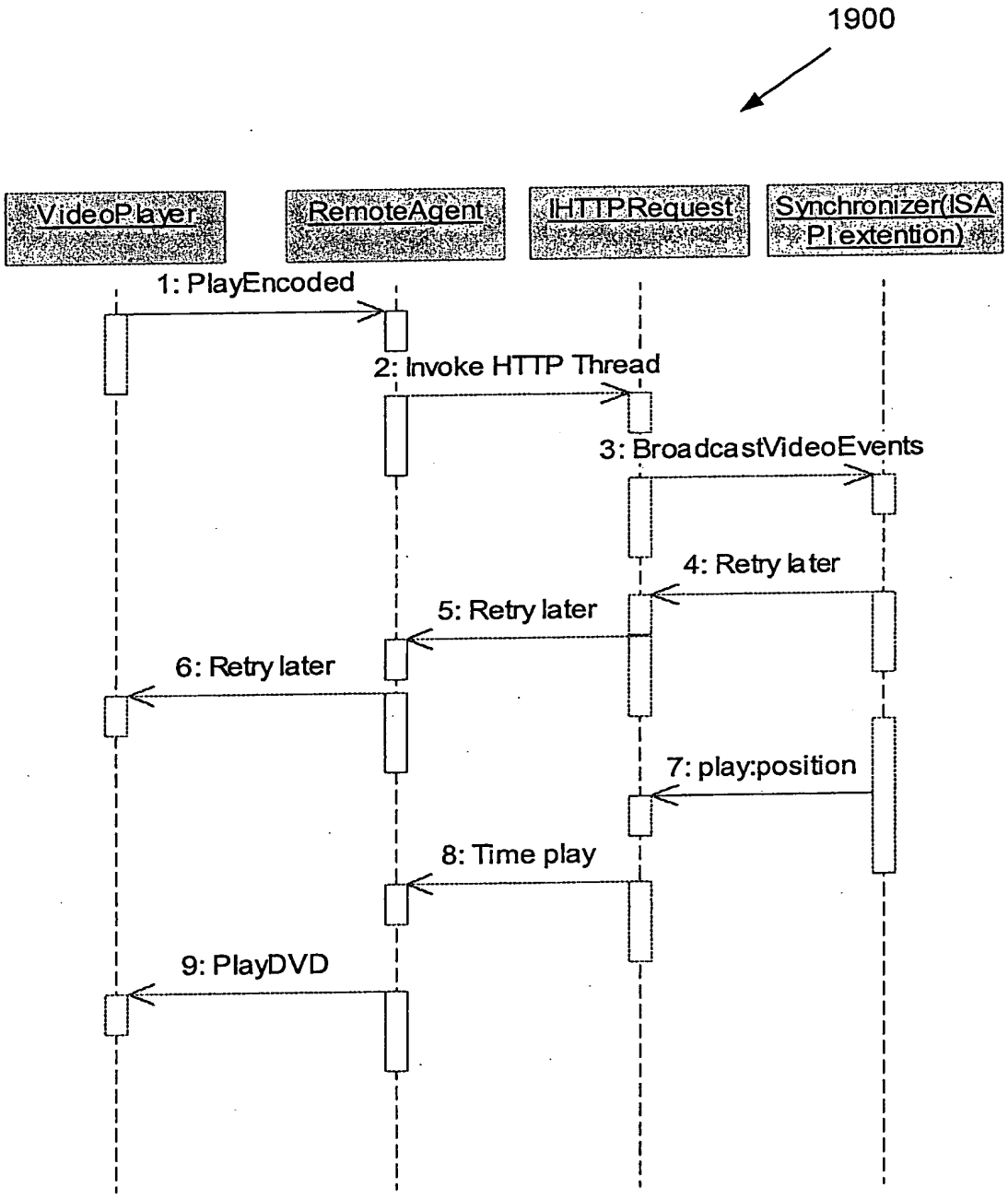
1900
VideoPlayer
RemoteAgent
IHTTPRequest
Synchronizer(ISA PI extention)
1: PlayEncoded
2: Invoke HTTP Thread
3: BroadcastVideoEvents
4: Retry later
5: Retry later
6: Retry later
7: play:position
8: Time play
9: PlayDVD

Figure 19